

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (*Currently Amended*) A locomotive relay assembly comprising:

a plurality of solid-state relay devices, each of said solid state relay devices having a switch, and a signal regulated by a D.C./D.C. power converter, wherein said D.C./D.C. power converter regulates standard locomotive voltage by stepping down said locomotive voltage to a solid-state relay control side voltage;

wherein the opening of said internally self-biased solid-state relay device causes said externally self-biased solid-state relay device to be no longer self-biased, thus opening said externally self-biased solid- state relay device;

wherein each said switch comprises a solid-state relay load side, and each said signal switch comprises a solid-state relay control side opposite said solid-state relay load side;

wherein said solid-state relay load side, in the presence of said standard locomotive voltage, has a combined normally open switch configuration and a normally closed switch configuration, said normally closed switch configuration comprising an internally self-biased solid-state relay device and an externally self-biased solid-state relay device, wherein said externally self-biased solid-state relay device is self-biased due to electricity running from said load side to said control side through a first D.C./D.C. power converter that runs in parallel with said externally self-biased solid-state relay device;

wherein said solid-state relay control side, in the presence of the electricity passing through a second D.C./D.C. power converter at said standard locomotive voltage, causes said normally open configuration to close, and causes said normally closed configuration to open, wherein the opening of said internally self-biased solid-state relay device causes said externally self-biased solid-state relay device to be no longer self-biased, thus opening said externally self-biased solid-state relay device.

Claims 2-4 (*Canceled*)

Claim 5. (Currently Amended) The locomotive relay assembly according to claim [[4]] 1, wherein said solid-state relay load side consists of said normally open configuration only, said locomotive relay assembly further comprising:

an A.C. solid-state relay device operating at standard locomotive A.C. voltage, said A.C. solid-state relay device comprising a solid-state relay load side and a solid-state relay control side regulated by said second D.C./D.C. power converter;

wherein said solid-state relay control side, in the presence of electricity passing through said second D.C./D.C. power converter at said standard locomotive voltage, causes said normally open configuration and said A.C. solid-state relay device to close.

Claims 6-7 (*Canceled*)